

**HEAVY MOBILE
EQUIPMENT REPAIR
INSPECTOR
WL-5803-10**

**TRANSPORTATION
MAINTENANCE**

HEAVY MOBILE EQUIPMENT REPAIR INSPECTOR LEADER
WL-5803-10

JOB SUMMARY

This position is located in the Facilities Management & Airfield Support Department, Facilities Management Division, Transportation Branch, Naval Air Station, Lemoore, CA. Incumbent will be required to inspect and test cranes prior to cranes leaving shop area. Must conduct accident investigations ~~and prepare various work documents such as shop repair orders (SRO's), discrepancy reports, accidents~~ reports, etc. Must maintain and prepare documentation for inclusion in the equipment history record files. Will be responsible for advising and assisting in the development and preparation of preventative maintenance instructions, procedures, and technical specifications. The incumbent must have a thorough technical knowledge of all weight handling equipment, aerial lift trucks, aerial ladder trucks, bull dozers, generators, road graders, air compressors, backhoes, front end loaders, and multi-engine equipment. Knowledge of electrical systems, mechanical systems, hydraulic systems, and components is required.

Incumbent inspects, performs and witnesses tests on the electrical, mechanical, hydraulic, air, fuel injection systems, transmissions, and final drives on such heavy equipment as diesel/electric cranes (100 ton), portable generators (5-375 horsepower), stationary generators (420-800 horsepower), portal cranes, and mobile truck cranes to determine need and extent of repairs, overhaul requirements, adequacy of completed repairs, load tests and certifies cranes. Incumbent is responsible for inspecting fire trucks, aerial trucks, bull dozers, backhoes, boats, air compressors, mobile generators, insecticide equipment, material handling equipment, light and heavy automotive equipment, etc.

TYPICAL WORK PERFORMED

55% Makes inspections of heavy equipment such as mobile truck cranes, portable generators, and electric bridge cranes. Inspects at work site or in shop to determine the need, nature, and extent of repairs required to return equipment to a safe operating condition. Inspects varied systems and components such as electrical systems, mechanical systems, hydraulic systems, air systems, fuel injection systems, transmissions, gear drive units, compressors, oil and water systems, steering systems, final drive differentials, generators, tracks, sprockets, etc. Diagnoses specific problems and determines the nature and extent of disassembly and repairs required. Makes visual and operational checks on vehicles, systems, and components.

5% Makes determinations and recommendations regarding complete rebuilding or disposal of equipment when inspection reveals extensive or unusual damage or deterioration or when any condition indicates that normal repair may be economically unsound.

15% Inspects repair work in progress to determine what additional work may be required. Inspects major assemblies and parts after removal to determine whether or not they are beyond economical repair. Inspects equipment that has been involved in accidents to determine the extent of repairs required. Inspect equipment after repair to insure that it meets established specifications. This includes work done by the Transportation Branch, as well as private contractors.

15% Incumbent determines the nature and extent of work to be done. Prepares labor, material, and accident cost estimates. Writes this information along with a description of the work to be performed on a shop repair order and passes the shop repair order to the Supervisor. Prepares, maintains and reviews preventative maintenance schedules, and equipment history files on a regular basis using the Transportation computer program.

10% Performs typical duties of a Working Leader. Passes on to other workers the instructions received from Supervisor and gets work started, e.g., by assigning the immediate tasks to be performed by individual member of the group led. Works along with other workers and sets the pace. Demonstrates proper work methods. Ensures needed plans, blueprints, materials, and tools are available, and that needed stock is

obtained from supply locations. Obtains needed information or decisions from Supervisors on problems that come up during work. Maintains current knowledge, and answers questions of other workers on procedures, policies, written instructions, and other directives (e.g., technical orders). Checks work while in progress and when finished to see whether the Supervisor's instructions on a work sequence, procedures, methods, and deadlines have been met. Urges or advises other workers to follow instructions received from Supervisor, and to meet deadlines. Assures that safety and housekeeping rules are followed. Reports to the Supervisor on status and progress of work and causes of work delays. Answers questions of Supervisor on overall work operation.

SKILLS AND KNOWLEDGE

Must have an extensive knowledge of heavy mobile construction equipment, cranes, and material handling equipment, in addition to light and heavy automotive equipment and vehicles. Must have an extensive knowledge of equipment components and systems. Must be an overall mechanic with knowledge of all phases or repair and overhaul work to determine defects and make estimates of standard flat rate hours. Must be able to operate computers, computerized test and diagnostic equipment, and instruments necessary for determining defects on equipment received in the shop for repair. Must be able to operate such testing, diagnostic and measuring equipment testers measuring to a tolerance of 1/10,000 voltmeters, ohmmeters, micrometers, calipers, depth and feeler gauges. Required to read and interpret specifications, sketches and blueprints to provide technical information to aid in the preparation. Must have the ability to solve work problems and recommend to mechanic the best methods of accomplishing work when there are a variety of methods that may be employed. Must have the ability to inspect heavy mobile equipment that have to be overhauled and rebuilt in the absence of technical guides. Must know the principles and methods of heavy equipment repair and apply good judgement to prepare detailed instructions on the shop repair orders that will restore equipment to effective operating condition.

RESPONSIBILITY

Receives supervision from the Transportation Supervisor. Work is performed independently by employee, with occasional special instruction for unusual situations. Checks completed work for adherence to policy, program objectives, and insure work meets standards of quality and quantity.

Written guides available include NAVFAC P-300, "Management of Transportation Equipment", Manufacturer's Manuals, shop manuals, and Transportation Branch Instructions. Since much of the equipment dealt with is obsolete, the incumbent must be able to use innovative methods to extend the operational usefulness when excessing equipment is not possible. This sometimes entails the modification and redesign of a piece of equipment to prevent deterioration.

PHYSICAL DEMANDS

Required to use hydraulic and pneumatic lifts. Lift weights up to an average of 40 pounds. Work requires frequent bending, sitting, kneeling, stooping, reaching, stretching, and climbing. Must be able to pass annual physical required by the Transportation Branch.

WORKING CONDITIONS

Works both indoors and outdoors and is frequently exposed to drafts, changing temperatures, and noise. Frequently exposed to irritation or discomfort from dust, heat, fumes, hard floors, and wet ground. Frequently exposed to the possibility of falls from high levels when climbing aboard equipment such as large portal cranes. Follows prescribed safety practices and uses safety equipment such as protective ear devices, hard hats, safety shoes, and safety glasses. Is exposed to moving objects, vehicles, and equipment when inspecting work being performed in the work area or job site.